



# PERMIT APPLICATION

Permit # 886 (Assigned by Department)

The Louisiana Department of Wildlife and Fisheries' Scenic Rivers program is authorized by LRS title 56, Chapter 9 Part II. This law requires permits authorizing activities in or affecting rivers that have been designated by the Louisiana Legislature as Natural and Scenic. Information provided on this form will be used in evaluating the application for a permit. Information in this application is made a matter of public record through issuance of a public notice. Disclosure of the information requested is voluntary, however, the data requested are necessary in order to communicate with the applicant and to evaluate the permit application. If necessary information is not provided, the permit application cannot be processed nor can a permit be issued.

## APPLICANT INFORMATION

Name of Applicant	Angelina Gathering Company	Name of Agent (if any)	FTN Associates, Ltd
Address	1000 Southwestern Energy Drive	Address	124 W. Sunbridge, Suite 3
Address		Address	
City, State, Zip	Conway, AR 72032	City, State, Zip	Fayetteville, AR 72703
Phone	501-548-3719	Phone	479-571-3334

## DESCRIPTION OF THE PROPOSED ACTIVITY

Brief summary of the description and purpose of the proposed activity (details to be attached as a separate document)

Proposed pipeline bore. See attached.

Is any portion of the activity complete? YES ☒ NO (If yes indicate month and year of completion)

## LOCATION OF PROPOSED ACTIVITY

Stream Name	Bayou de Loutre	Names, Addresses, Phone Numbers of Adjacent Property Owners
Parish	Union	Plum Creek Timber, PO Drawer No. 1, Joyce LA 318-648-3300
Section	28	Plum Creek is the only owner on the river in section 28
Township	22N	
Range	1W	
Latitude/Longitude	32.86282, -92.37175	

32.86282, -92.368576

## ENVIRONMENTAL ASSESSMENT

Must be a separate document. See the attached instruction sheet for completing the assessment.

## CONFIRMATION OF INFORMATION ACCURACY

Application is hereby made for a Scenic River Use Permit to authorize the activities described herein. I certify that I am familiar with the information contained in this application, and that, to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities, or I am acting as the duly authorized agent of the applicant.

Signature

11/5/13

Date

LOUISIANA NATURAL AND SCENIC RIVERS SYSTEM  
PERMIT APPLICATION  
Bayou De Loutre  
Union Parish, LA

Prepared for:

Angelina Gathering Company  
1000 Southwestern Energy Drive  
Conway, AR 72032

Prepared by

FTN Associates, Ltd.  
124 West Sunbridge, Suite 3  
Fayetteville, AR

FTN Project No. R06493-0002-117

October 30, 2013

11/5/2013

LDWF Project Manager  
Louisiana Department of Wildlife and Fisheries  
Scenic Rivers Program  
P.O. Box 9800  
Baton Rouge, LA 70898-9000

Dear LDWF Project Manager,

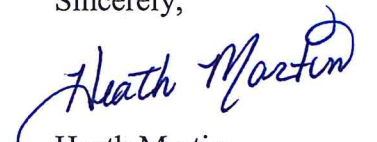
As you are aware, the LDWF has requested a Louisiana Natural and Scenic River System permit application be submitted for various construction activities in or affecting rivers that have been designated by the Louisiana Legislature as natural and scenic.

Southwestern Energy Company is submitting a Scenic River permit application for a project including the aforementioned activities. Southwestern Energy Company is pleased to provide this data to the LDWF, however we have concerns related to the confidential nature of this information.

As such, we ask that any such submissions be treated in accordance with 5 U.S.C. 552(b)(4) and (9) and detailed in 32 C.F.R. Part 518. Southwestern Energy Company has voluntarily provided this highly confidential information which contains geological and geophysical information and data, specifically including maps, concerning the wells or pipeline contained in the Brown Dense play. The data submitted is specifically covered by 5 U.S.C. 552(b)(4) and (9) and relevant corresponding section of 32 C.F.R 518.13.

We would request that the information submitted to date and any subsequent submissions of this type be treated as exempt from disclosure pursuant to FOIA.

Sincerely,

  
Heath Martin  
Staff Regulatory Analyst



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APPENDIX A: Louisiana Natural and Scenic Rivers System Permit Application  
(Form LSR3)

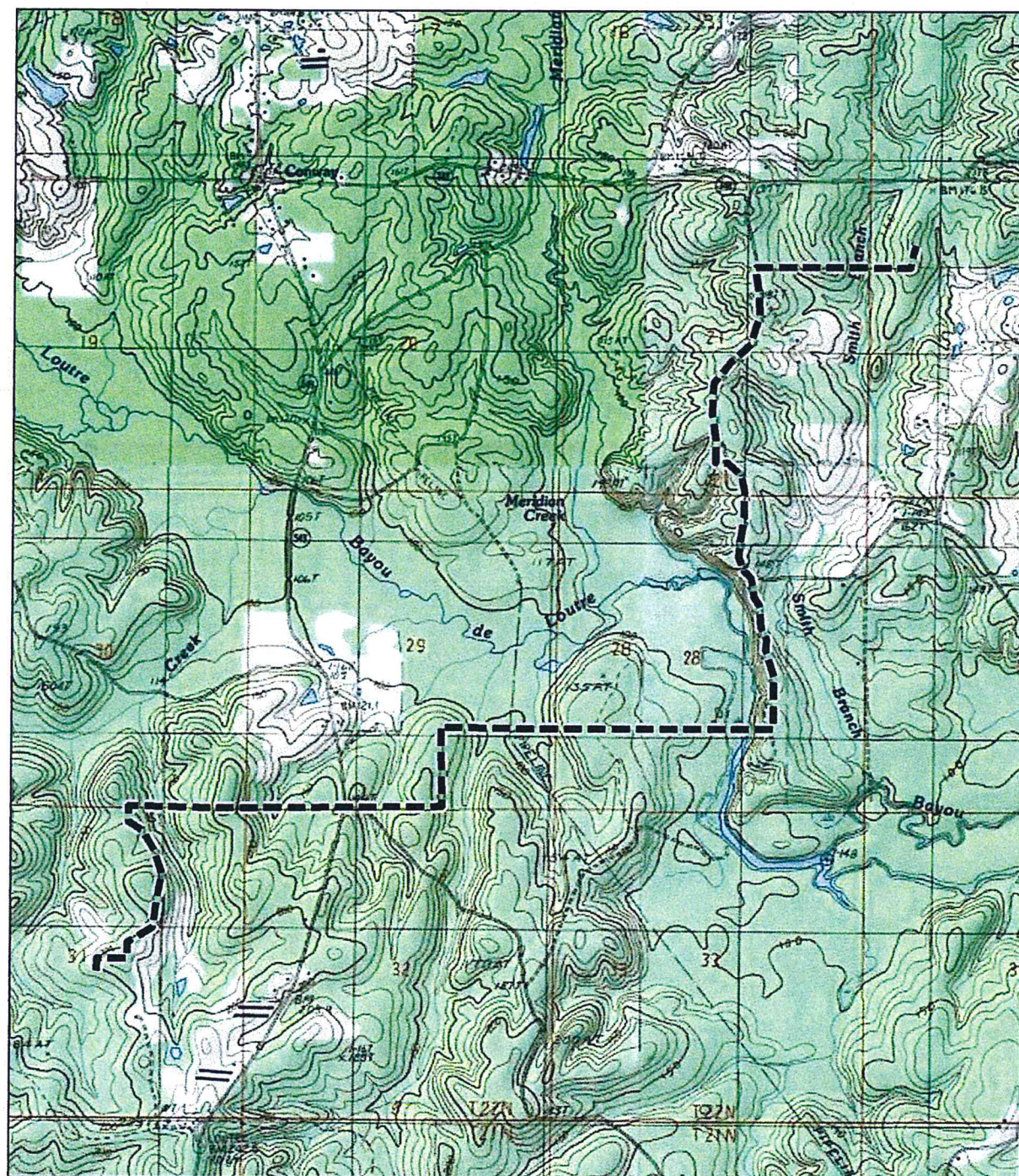
APPENDIX B: Site Photographs

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APPENDIX D: Louisiana Department of Culture, Recreation & Tourism Correspondence

## LIST OF FIGURES

- Figure 1. Map showing bore limits based on 2010 Microsoft BING Imagery.
- Figure 2. Map showing bore limits based on USGS topographic quadrangle De Loutre, LA (7.5-minute series).
- Figure 3. Bayou De Loutre Profile.



# Sharp Well Connect

1

Miles

--- Proposed Route



Background: USGS

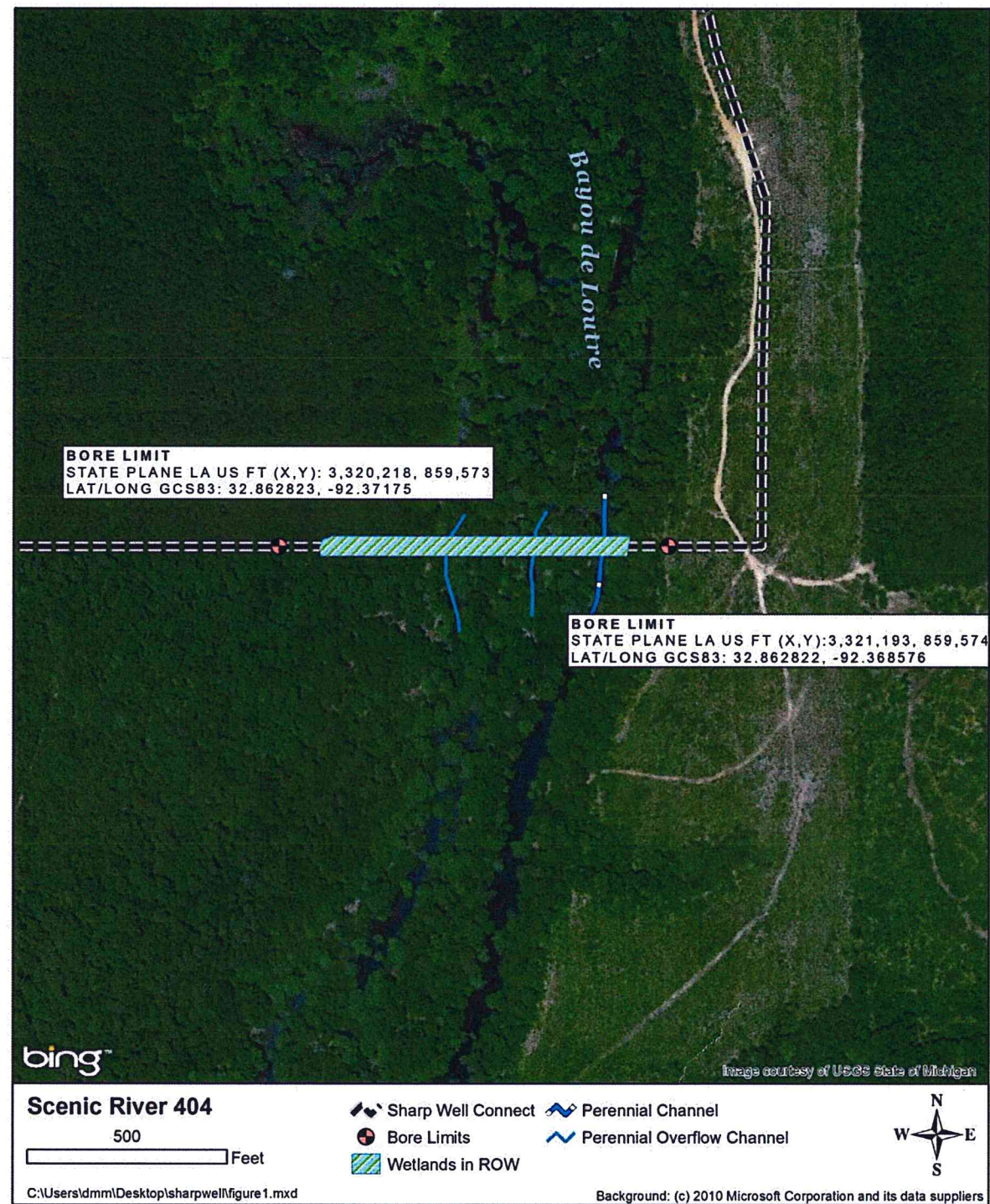


Figure 1. Map showing bore limits based on 2010 Microsoft BING Imagery.

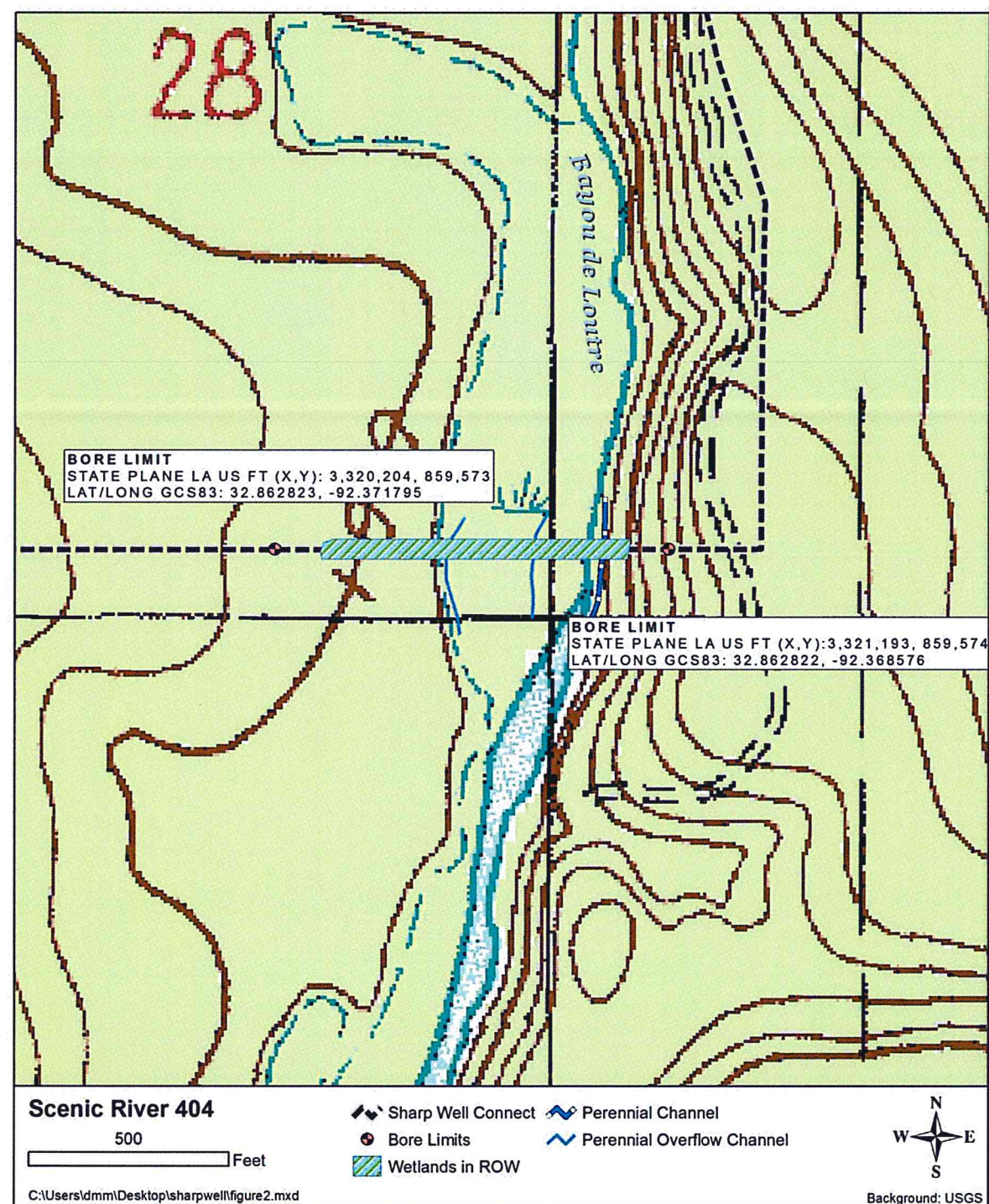
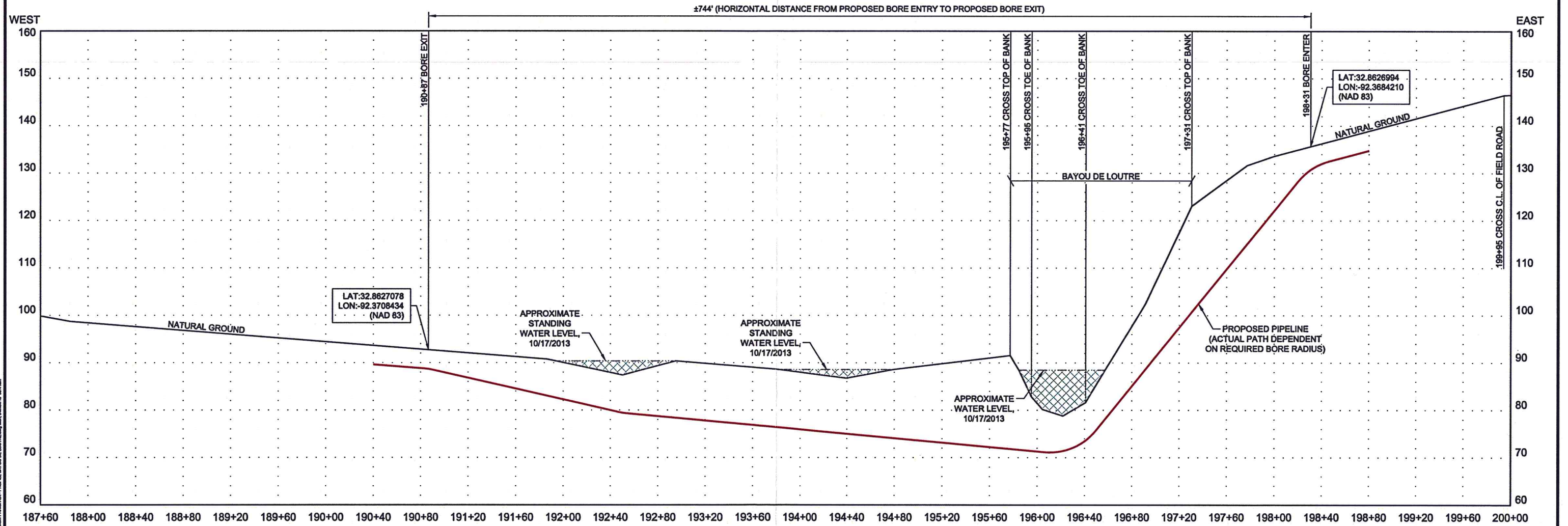


Figure 2. Map showing bore limits based on USGS topographic quadrangle De Loutre, LA (7.5-minute series).



320 O'Bryan Lane • Van Buren, AR 72956  
Office: 479.474.7916 • Fax: 479.474.2450  
Surveying • handa-inc.com

UNION PARISH, LOUISIANA



PROFILE VIEW  
SCALE: HORIZ.: 1" = 40'  
VERT.: 1" = 10'

GENERAL NOTES:

- THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED UPON REASONABLE VISUAL OBSERVATION. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/ STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE OFFICES OF THE VARIOUS UTILITIES SERVICING THIS AREA SHOULD BE CONTACTED FOR THEIR UTILITY LOCATION.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY.
- PROJECT COORDINATE: LOUISIANA STATE PLANE COORDINATES, NORTH ZONE, NAD 83, U.S. FEET, AS DETERMINED WITH GPS RECEIVER, RTK METHOD, AND NGS-OPUS BASE STATION.
- THE ELECTRONIC DRAWING OF THIS PLAT IS BASED UPON THE PROJECT COORDINATE SYSTEM; THE PIPELINE POINT OF INTERSECTION (P.I.) STATIONING IS BASED UPON GRID DISTANCES; AND THE CENTERLINE DESCRIPTIONS ARE BASED UPON GROUND DISTANCES.

5. HAI FIELD NOTE REFERENCE BOOK: D-216 PAGE: 23-24 & 27.

6. HAI JOB NUMBER:  
55247 - "SHARP WELL CONNECT" LATERAL

WARNING  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING HAS BEEN REDUCED AND IS NOT TO SCALE



11-04-2013  
RYAN E. HANNAN, PS LICENSE NO. 5080  
HOFFMAN & ASSOCIATES, INC.  
320 O'BRYAN LANE, VAN BUREN, AR 72956  
(479) 474-7916  
LOUISIANA FIRM LICENSE NUMBER 703

REVISIONS		ANGELINA GATHERING COMPANY, L.L.C.		
1.	ADDED LAT. & LONG., 11/04/2013.	"SHARP WELL CONNECT" LATERAL CROSSING BAYOU DE LOUTRE SECTION 28, T-22-N, R-01-E, UNION PARISH, LOUISIANA		
		SCALE: 1" = 40' DATE: 10-24-2013	AFE #: 1003572	SHEET NO. 1 OF 1



Photo 1. View of the riparian zone near the western boundary looking west.



Photo 2. View of the wetland area near the western boundary looking east.

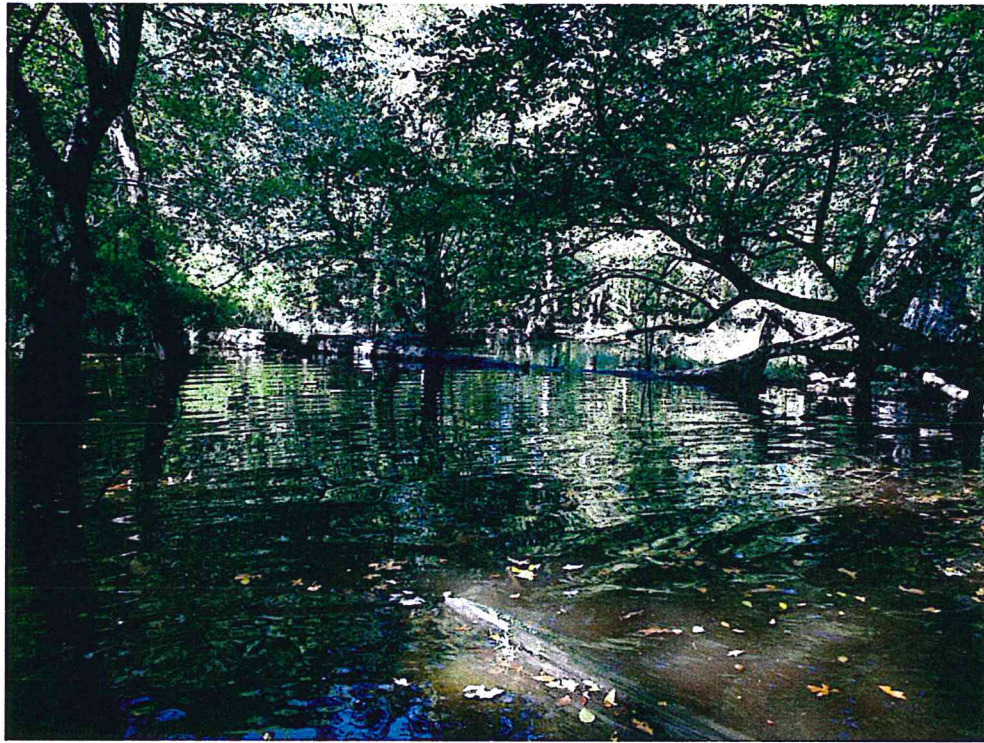


Photo 3. View of a side channel of Bayou De Loutre within the project area.



Photo 4. View of a side channel of Bayou De Loutre within the project area.



Photo 5. View of the wetland area between channels of Bayou De Loutre.

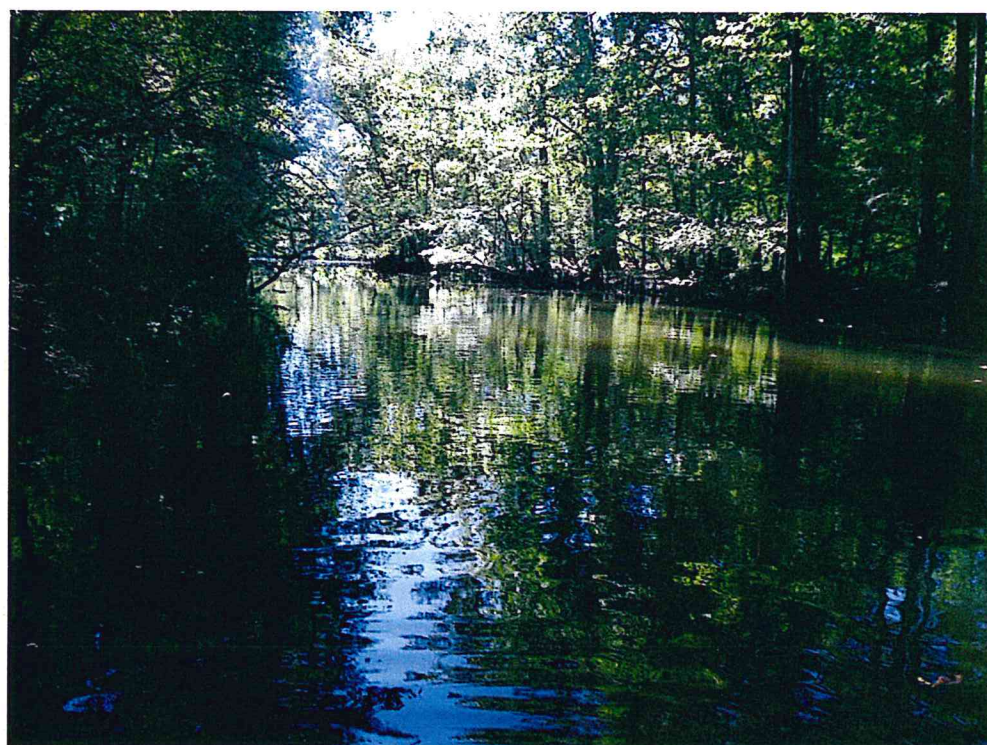


Photo 6. View of the main channel of Bayou De Loutre within the project area.



Photo 7. View of the riparian zone near the eastern boundary looking east.

## **1.0 PROJECT DESCRIPTION**

The purpose of the project is to construct a new approximately 27,708-linear-foot (5.2-mile) natural gas connector line (4 inch steel pipe) and associated equipment within a 50 ft right-of-way (ROW). Approximately 775-linear-feet (0.15 mile) of the proposed line will transect Bayou De Loutre and associated wetlands. The pipeline will be installed using the Horizontal Directional Drill (HDD) method. The 4 inch steel pipe will be placed at a minimum of 5 ft below the wetland and streambed. This method will ensure that there are no impacts to the Scenic River or the surface area above the HDD between the entry and exit points.

## **2.0 LIST OF PERMITS REQUIRED**

1. US Army Corps of Engineers, Vicksburg District: Nationwide Permit 12 (Pending);
2. US Fish and Wildlife Service, Lafayette Ecological Services Office: T&E Species Concurrence; and
3. Louisiana Office of Cultural Development: SHPO Concurrence

## **3.0 ENVIRONMENTAL ASSESSMENT**

### **3.1 Existing Land Use**

The proposed project area is located within a forested wetland complex associated with Bayou De Loutre that is predominately surrounded by silviculture. The entirety of the project area is located within a Federal Management Agency 100-year floodplain associated with Bayou De Loutre in Union Parish, Louisiana. The area is considered to be in Zone A for which base flood elevations are determined. There is no development within or in the immediate vicinity of the project area. The proposed project will consist of a horizontal Directional Drill (HDD) of Bayou De Loutre and its associated wetlands. No surface clearing will occur within the wetland boundaries or the immediate riparian zone. The area will be maintained in its natural state. The proposed project is expected to have no adverse impacts on the existing land use.

### **3.2 Historical/Archaeological Sites**

A cultural resources desktop review of the proposed Sharp Connector Line produced negative findings. No further cultural resources investigations are recommended prior to the proposed undertaking. The proposed project is expected to have no adverse impacts on historical or archaeological sites.

### **3.3 Economic Impact of the Project**

The proposed project will result in a positive economic impact (e.g., employment opportunities, payment of royalties to landowners/mineral rights owners, and expanded State and local government spending activity). The proposed project is expected to have no adverse impacts on the economy.

### **3.4 Wilderness/Rural Quality**

The proposed project area is located within a forested wetland complex with no development. The HDD will allow Bayou De Loutre, the associated wetland complex, and the immediate riparian zone outside of the wetland complex to remain in its natural state with no clearing. The proposed project is expected to have no adverse impacts on wilderness/rural quality.

### **3.5 Scenic/Aesthetic Value**

The proposed project area is a natural landscape with high scenic and aesthetic values. The HDD will allow Bayou De Loutre, the associated wetland complex, and the immediate riparian zone outside of the wetland complex to remain in its natural state with no clearing. The proposed project is expected to have no adverse impacts on the scenic and aesthetic values.

### **3.6 Recreational Use/Opportunities**

Public recreational use of Bayou De Loutre within the proposed project area is limited. The surrounding land is privately owned with no public access. The proposed project is expected to have no adverse impacts on recreational use or opportunities.

### **3.7 Ecological Systems Present**

The ecological system present within the project area is that indicative to bottomland hardwood forests of the southeastern United States. The bottomland hardwood forest was in a natural state with no alteration. The HDD will allow Bayou De Loutre, the associated wetland complex, and the immediate riparian zone outside of the wetland complex to remain in its natural state with no clearing. The proposed project is expected to have no adverse impacts on the ecological systems present.

### **3.8 Fish and Wildlife in the Area**

Bayou De Loutre and its associate wetlands provide valuable food, water, shelter, resting, and breeding grounds for fishes and wildlife in the area. The HDD will allow Bayou De Loutre, the associated wetland complex, and the immediate riparian zone outside of the wetland complex to remain in its natural state with no clearing. Immediate disruption of fish and wildlife may occur during construction due to the presence of humans within the vicinity; however, the proposed project is expected to have no adverse impacts on the fish and wildlife in the area.

### **3.9 Botanical Elements**

The project area is dominated by a forested wetland community. The dominant species within this community type included southern bald cypress (*Taxodium distichum*), overcup oak (*Quercus lyrata*), water oak (*Quercus nigra*), American elm (*Ulmus americana*), planertree (*Planera aquatica*), and loblolly pine (*Pinus taeda*). The HDD will allow Bayou De Loutre, the associated wetland complex, and the immediate riparian zone outside of the wetland complex to remain in its natural state with no clearing. The proposed project is expected to have no adverse impacts on the botanical elements.

### **3.10 Geological Features**

The proposed project area is comprised of Claiborne Group (Eocene) geology. The NRCS web soil survey includes one map unit within the proposed project area: Iuka-Dela complex, frequently flooded. Observed geological features within the project area include the

braided perennial channels of Bayou De Loutre . No other geological features are present in the proposed project area. The HDD will allow Bayou De Loutre to remain in its natural state with no channelization or channel relocation. The proposed project is expected to have no adverse impacts on the geological features.

### **3.11 Hydrological Features**

US Geological Survey topographic quadrangle De Loutre, LA (7.5-minute series) identifies one perennial braided stream (Bayou De Loutre) and associated wetlands between the braids as occurring within the project area. No other hydrological features are identified. Field investigations revealed that a forested wetland is present to the west and between the braided channels of Bayou De Loutre and is directly related to the bayou. The left bank of the main channel is confined by a steep slope and no wetlands occur beyond the bank to the east. The HDD will allow Bayou De Loutre, the associated wetland complex, and the immediate riparian zone outside of the wetland complex to remain in its natural state with no clearing, channelization, or channel relocation. The proposed project is expected to have no adverse impacts on hydrological features.

### **3.12 Water Quality/Quantity**

The United States Environmental Protection Agency has identified Bayou De Loutre as impaired from the Arkansas State Line to the Ouachita River. The causes of impairment are dissolved oxygen and mercury in fish tissue. The 100-ft riparian buffer established outside of the wetland boundary will play an important role in filtering and trapping sediment and dissolved and sediment-borne pollutants. The proposed project is expected to have no adverse impacts on water quality or quantity.

## **4.0 SCENIC RIVER ACT COMPLIANCE HISTORY STATEMENT**

There are no violations against Angelina Gathering Company (AGC) in regards to the Scenic River Act.

## **5.0 MINIMIZATION EFFORTS**

AGC is proposing to construct the pipeline under Bayou De Loutre by using HDD. This will ensure that there are no impacts to the Scenic River or the surface area above the HDD between the entry and exit points. AGC/SWN has a company BMP (Best Management Practices) document on file at the Vicksburg Corp of Engineers. All appropriate BMP's will be used during the HDD construction activities to ensure that erosion control measures are sufficient to prevent impacts to the river. Including but not limited to a minimum of a 100-ft setback from the delineated wetland boundary on the entry and exit of the HDD on each side of the Scenic River (Figures 1-3).

## **6.0 PROJECT ALTERNATIVES**

No action is the only proposed alternative.

## **7.0 FEES AND OTHER CHARGES**

Fees for the Project include an Application Fee in the amount of \$100. A check for this fee is included with this submittal.

## **8.0 CONCLUSIONS**

The proposed Bayou De Loutre HDD will result in no adverse impacts to Bayou De Loutre and associated wetlands. The proposed HDD will be well outside (100 ft and greater) wetlands associated with Bayou De Loutre.



## State of Louisiana

BOBBY JINDAL  
GOVERNOR

DEPARTMENT OF WILDLIFE AND FISHERIES

ROBERT J. BARHAM  
SECRETARY

Dear Scenic River Permit Applicant:

Please review and concur on the following statement regarding the issuance of permits by the Louisiana Department of Wildlife and Fisheries. This agreement must be signed and returned before a Scenic River Permit can be issued.

"I have been advised and do understand that by applying for and accepting a Scenic Rivers permit issued by the Louisiana Department of Wildlife and Fisheries, I am being allowed to engage in an activity which would otherwise be prohibited by law or for which a permit is required. I understand that the permit is not a license and confers no property right upon me. I specifically agree to abide by all State and Federal fish and wildlife laws and regulations, and all State and Federal laws and regulations which relate to this permit or the permitted activity, and by all other terms and conditions of this permit. I understand that the permit for which I am applying may be suspended, annulled, withdrawn or revoked and that I may be assessed civil penalties, all in accordance with the provision of the Louisiana Administrative Procedure Act, and that I may be denied future permits as a consequence of my failure to fully and completely comply with the terms and conditions of the permit, as well as other laws and regulations pertinent thereto. If served with or notified of a cease and desist order signed by the Scenic Rivers Administrator, I agree to immediately and without delay cease all activities and operations which relate to the permitted activity or which are impacting the Scenic River, until such time as the matter can be resolved in an adjudicatory hearing pursuant to the Louisiana Administrative Procedure Act. I understand and agree that any permit issued to me by the Louisiana Department of Wildlife and Fisheries is in the nature of a privilege which is being voluntarily extended to me by the Department and the failure on my part to cooperate with the Department can result in the loss of the privilege conferred and the denial of future requests for permits. By accepting this permit, I evidence my agreement to be bound by all conditions and stipulations set forth herein."

  
Authorized Signature

  
Date

REV. 12/7/98



water resources / environmental consultants

124 W Sunbridge Dr. • Suite 3 • Fayetteville, AR 72703-1869 • (479) 571-3334 • Fax (479) 571-3338

October 30, 2013

Pam Breaux, State Historic Preservation Officer  
Department of Culture, Recreation & Tourism  
1051 North 3<sup>rd</sup> Street  
Baton Rouge, LA 70802

RE: Transmittal of Cultural Resources Desktop Review of Sharp Well Connect Line,  
Union Parish, Louisiana and Request for Section 106 Review Consultation  
FTN No. R06493-0002-117

Dear Ms. Breaux:

The purpose of this letter is to transmit one copy of the Sharp Well Connect Line Cultural Resources Desktop Review for your review (Enclosure 1). We would appreciate receipt of your review comments at the earliest possible date.

SWN Midstream Company contracted with FTN Associates, Ltd. of Little Rock, Arkansas to prepare a Section 404 Permit Application for submittal to the US Army Corps of Engineers and a Louisiana Natural and Scenic Rivers System Permit Application for submittal to the Louisiana Department of Wildlife and Fisheries for construction of a natural gas pipeline and associated equipment in Union Parish, Louisiana.

The project area is mapped on US Geological Survey topographic quadrangles Farmerville, LA, De Loutre, LA, and Marion West, LA (7.5-minute series) (Enclosure 2). Legal description of the project area is Parts of Sections 21, 22, 28, 29, 30, and 31, Township 22 North, Range 1 East.

If you have questions or need additional information, please feel free to call me at (479) 571-3334 or Jeremy Rigsby at (501) 225-7779.

Respectfully submitted,  
FTN ASSOCIATES, LTD.

David Rupe  
Ecologist

DMR/fjm

Enclosures

S:\PROJECTS\06493-0002-117\WP\_FILES\CORRESPONDENCE\L-P BREAU SHPO 10-30-13\L-P BREAU SHPO 10-30-13.DOCX



Panamerican Consultants, Inc.

Cultural Resource Management  
Maritime Archaeology  
Architectural History



29 October 2013

Cultural Resources Desktop Review

Project Name: .....Sharp Well Connect  
Project Type: ..... Gathering line  
Parish: ..... Union  
Legal description: ..... Sections 21, 22, 28, 29, 30, and 31 of T22N R1E  
Quad: ..... Farmerville, LA and Marion West, LA 7.5-min. quads

Louisiana Division of Archaeology (LDOA) file check

A 2 km radius around the gathering line was checked for previously recorded archeological sites and previous investigations (projects). There are no previously recorded archaeological sites known along the gathering line, but there is one within the search radius: 16UN45.

Site 16UN45 is an a large Early Caddo farmstead located on the north side of Bayou de Loutre at the HY 549 crossing. This site is 1 mi. north of the proposed gathering line.

LDOA files research reveals two previous archaeological investigations are documented within the search radius. Heartfield, Price and Green (1989) tested a portion of Site 16UN45 prior to HY 549 realignment, and no further work was recommended (LDOA Report# 22-1413).

During 2005, TRC conducted a survey of a 20 mi. long pipeline corridor for Centerpoint Entergy and reported negative findings (LDOA Report #22-2747). The proposed gathering line crosses the TRC pipeline survey corridor in the SE1/4 of Section 29 T22N R1E to the south of Bayou de Loutre.

NRHP Properties

NRHP listed properties were checked via a review of Google Earth. There are no NRHP properties recorded along the proposed gathering line, or within the search radius. The nearest listed property is Edgewood, an early twentieth-century Queen Anne style residence located 1 mi. west of Farmerville.

General Land Office (GLO) plat map

The 1824 plat map T22N R1E was examined and no cultural features were identified along the gathering line.

Additional Comments


The Sharp Well Connect gathering line extends for 27,721 ft. (8,449 m). The line is located with the Tertiary Uplands, a level IV ecoregion within the South Central Plains (a level III ecoregion). The terrain consists of hilly uplands formed by extensive dissection of bedrock strata. The cover consists of pine plantations, mixed forest, and open areas.

The proposed Sharp Well Connect gathering line cross at least three streams in the uplands—an unnamed tributary of Owl Creek, an unnamed tributary of Bayou de Loutre, and Smith Branch, and one stream in lowlands: Bayou de Loutre. The Bayou de Loutre crossing will be bored.

**Recommendation**

The majority of the proposed Sharp Well Connect gathering line is uplands that are assessed as having low-probability of containing significant cultural resources. No further work is recommended. The three stream crossings in the uplands are assessed as having a medium-probability of containing significant archaeological resources. No further work is recommended, but this recommendation is subject to agency reversal. Because the Bayou de Loutre crossing in the lowlands will be bored possible impacts to undocumented cultural resources are considered low, and no further work is recommended at this time. We caution that if any accidental discoveries of artifacts or cultural features are made during construction, SWN should notify Panamerican immediately.

Respectfully submitted,

  
C. Andrew Buchner, RPA